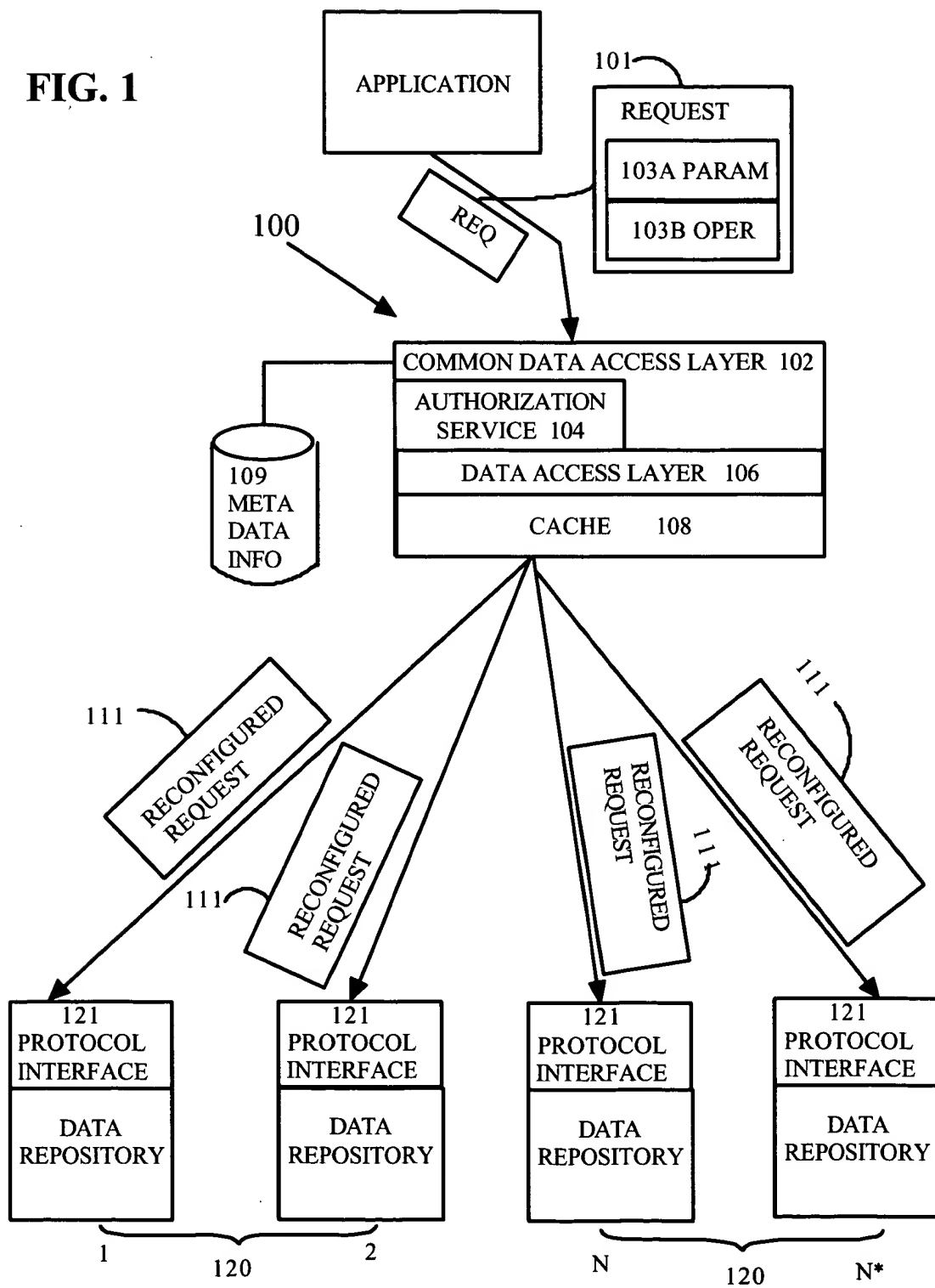


FIG. 1



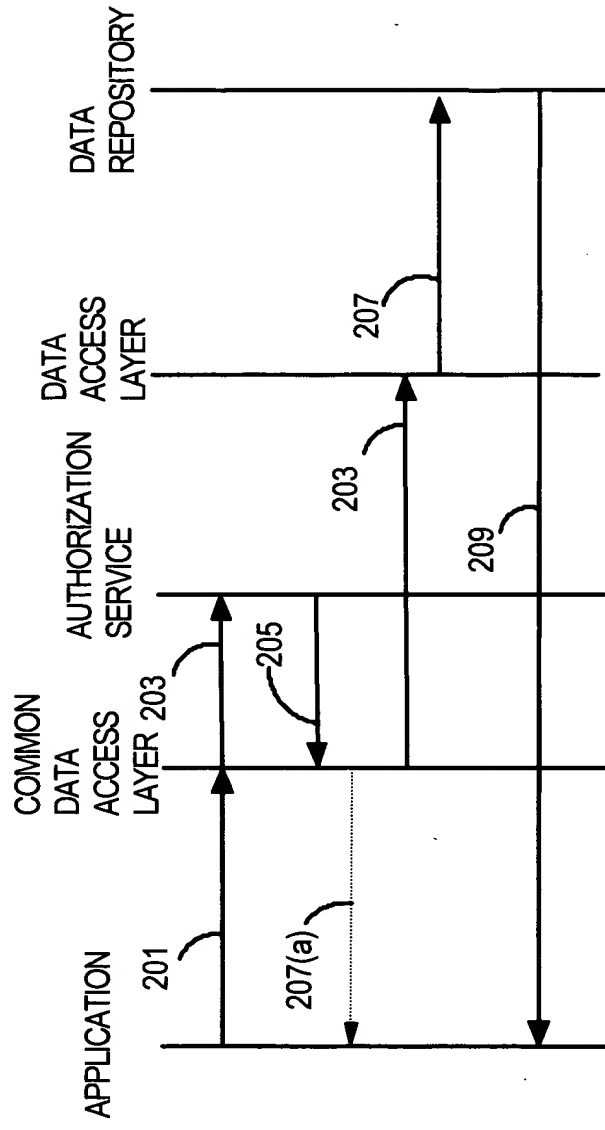


FIG. 2

```
graph TD; 310[RECEIVE REQUEST FOR DATA OBJECTS] --> 320[IDENTIFY META DATA FOR REQUEST PARAMETER]; 320 --> 330[MAP REQUEST PARAMETER & OPERATION TO METADATA]; 330 --> 340[RECONFIGURE REQUEST BASED ON METADATA]; 340 --> 350[SIGNAL RECONFIGURED REQUEST TO DATA REPOSITORY/CACHE]; 350 --> 360[SELECT DATA OBJECTS USING REQUEST PARAMETER & METADATA]; 360 --> 370[PERFORM OPERATION ON SELECTED DATA OBJECTS OR APPLICATION]; 370 --> 380[SIGNAL RESULTS BACK TO USER];
```

310
RECEIVE REQUEST FOR DATA OBJECTS

320
IDENTIFY META DATA FOR REQUEST
PARAMETER

330
MAP REQUEST PARAMETER &
OPERATION TO METADATA

340
RECONFIGURE REQUEST BASED ON
METADATA

350
SIGNAL RECONFIGURED REQUEST TO DATA
REPOSITORY/CACHE

360
SELECT DATA OBJECTS USING REQUEST
PARAMETER & METADATA

370
PERFORM OPERATION ON SELECTED DATA
OBJECTS OR APPLICATION

380
SIGNAL RESULTS BACK TO USER

FIG. 3

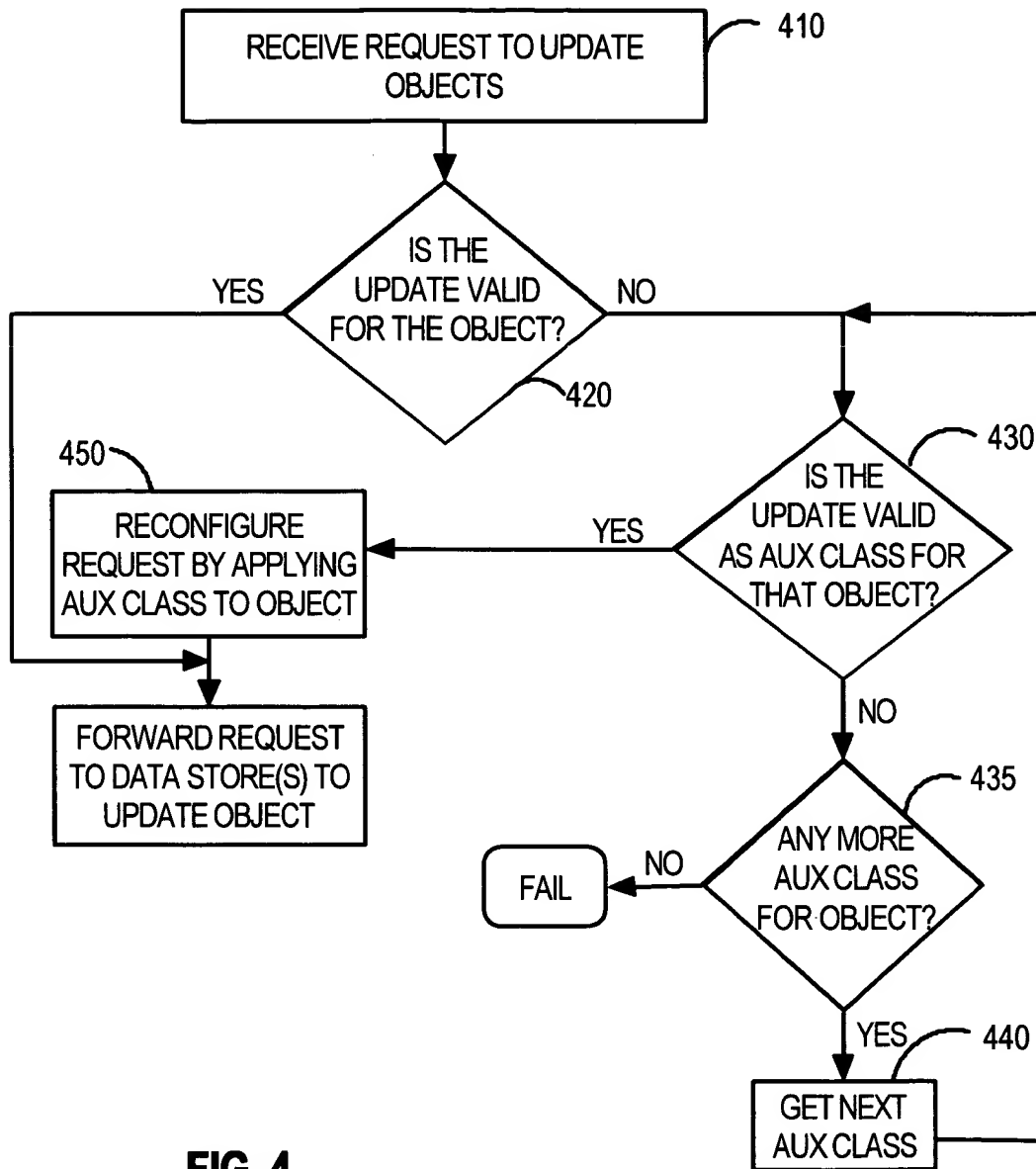


FIG. 4

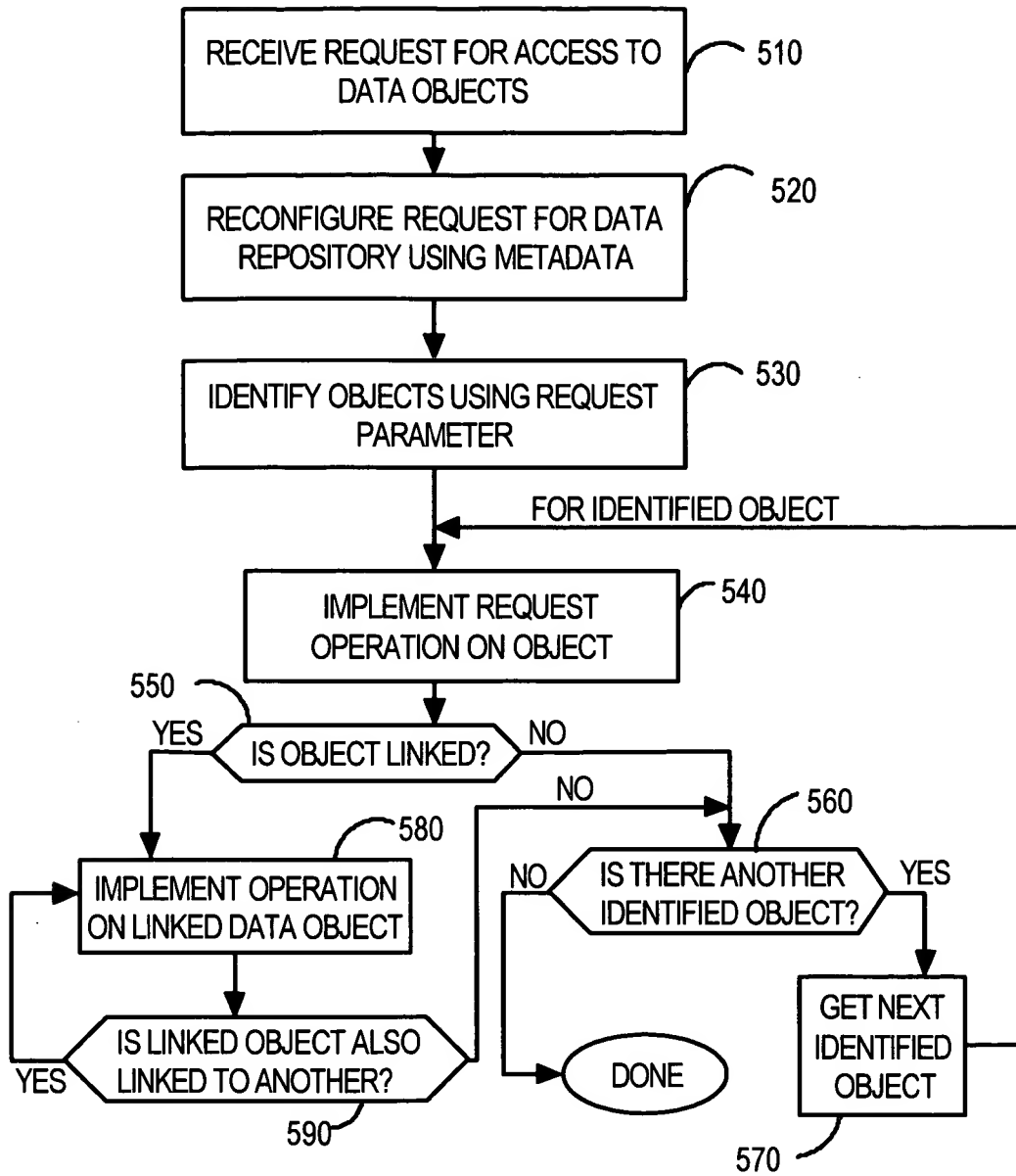


FIG. 5

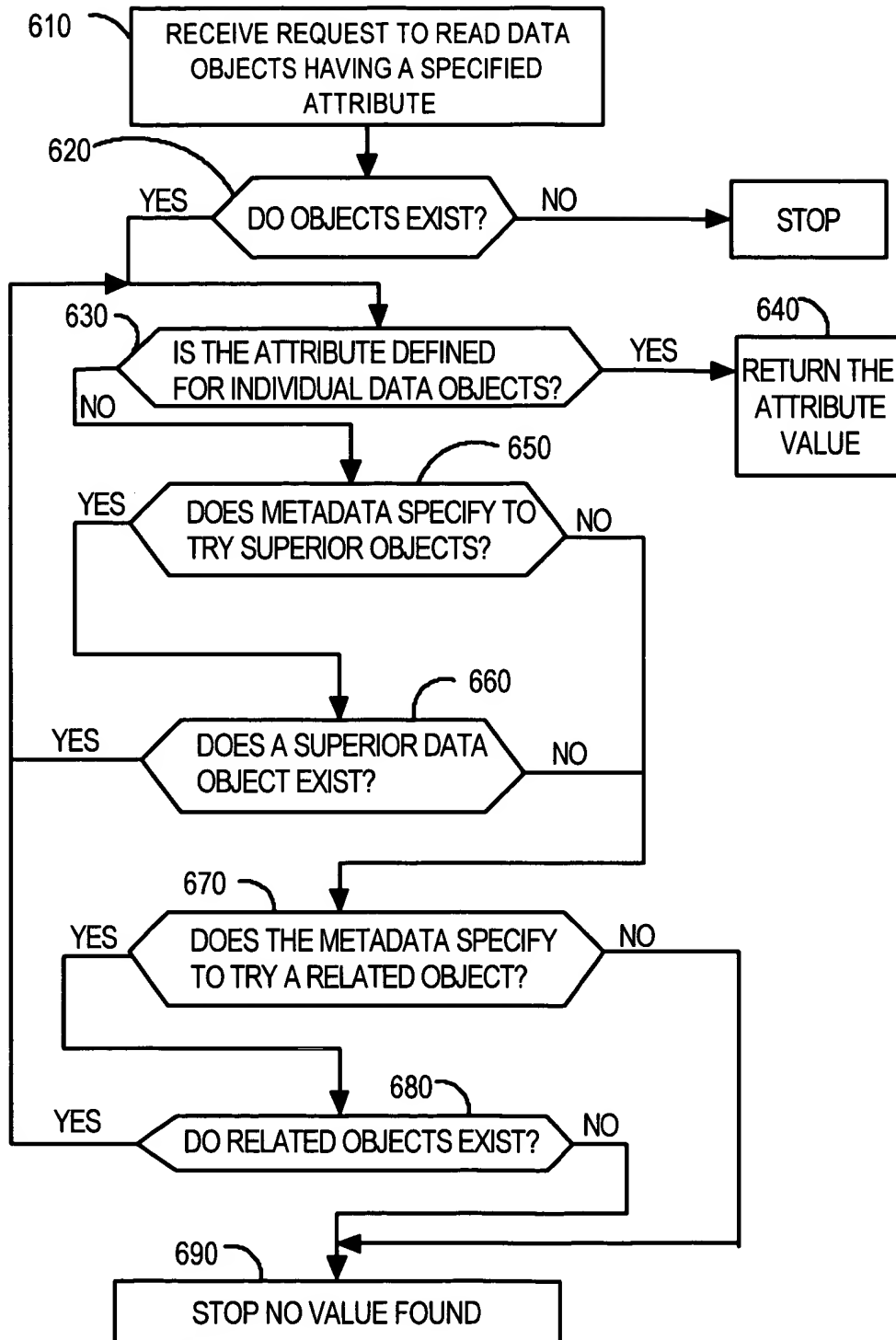


FIG. 6

700

710

720

730

740

AUX ATTRIB	MODIFIED OBJECT(S)	AUX VALUE	INSTRUCT
A1	$O_{11} O_{12}$	$\{V_1, V_2, V_N\}$	F(1)
A2	O_2	$\{W_1, W_2\}$	F(2)
.			
A_n	O_{2n}	Y_1	F(n)

FIG. 7

OBJECT NAME	L1	L2	...LP	INSTRUCT
O_{11}	O_{1x}	O_{1x}	$\dots O_{1x}$	$f(1)$
O_{15}	O_{1x}	<div></div>	<div></div>	$f(2)$
O_{1n}	O_{1x}	O_{1x}	O_{1x}	$f(3)$
O_{23}	O_{2y}	<div></div>	O_{2x}	
O_{xy}	$O_{..}$	$O_{..}$	$O_{..}$	$f(n)$

FIG. 8

900			
910	920	930	940
ATTRIBUTE	SUPERIOR OBJECT	RELATED OBJECTS	INSTRUCTIONS
A	O_{x1}	C_{x1}	$f(1)$
B	O_{x2}	C_{x2}	$f(2)$
.	.	.	.
Z	O_{xz}	C_{xz}	$f(z)$

FIG. 9

FIG. 10

